

Chlorinolysis Train 1

2013 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																								
BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
1	1/2/13	PS	15:55	0:00	11,470	2	105	0		5	1.9	N	0.2	10.1	0.00	0.00	On-Spec						3	7
2	1/7/13	JB	15:45	0:50	12,488	2	138	7		5	1.9	N	0.2	14.4	0.73	0.00	On-Spec						3	7
3	1/10/13	JD	13:50	7:15	9,861	5	50	0		8	3.8	N	0.4	4.1	0.00	0.00	On-Spec						3	7
4	1/12/13	M.Rich	11:00	15:30	10,083	24	186	0			2.9	N	2.0	15.7	0.00	0.00	On-Spec						5	7
5	1/18/13	JB	0:00	7:00	12,025	3	218	0		3	1.9	N	0.3	21.9	0.00	0.00	On-Spec						7	7
6	1/22/13	JD	9:30	18:30	12,025	3	613	0		8	2.0	N	0.3	61.5	0.00	0.00	On-Spec						7	7
7	1/29/13	M.Rich	17:15	23:15	8,325	3	650	0		4	1.2	N	0.0	0.0	0.00	0.00	On-Spec						25	5
8	2/1/13	JB	4:50	13:45	11,840	2	947	0		4	1.1	N	0.2	93.6	0.00	0.00	On-Spec						22	5
9	2/2/13	JB	21:30	6:00	12,025	2	784	0		4	1.1	N	0.2	78.7	0.00	0.00	On-Spec						22	5
10	2/11/13	PS	8:00	17:30	12,210	3	794	0		4	1.2	N	0.3	80.9	0.00	0.00	On-Spec						25	5
11	2/14/13	M.Rich	4:10	14:00	12,025	3	811	0		3	1.3	N	0.3	81.4	0.00	0.00	On-Spec						18	5
12	2/18/13	JD	12:00	19:45	12,025	3	646	0		3	1.1	N	0.3	64.8	0.00	0.00	On-Spec						18	5
13	2/22/13	M.Rich	17:00	19:30	7,863	2	1757	0		27	5.2	N	0.1	115.3	0.00	0.00	On-Spec						35	4
14	2/23/13	JD	8:30	12:00	9,158	5	1211	0		47	11.2	n	0.4	92.5	0.00	0.00	On-Spec						35	5
15	2/25/13	JB	21:00	6:00	12,025	2	880	5		10	1.0	N	0.2	88.3	0.50	0.00	On-Spec						24	4
16	2/27/13	PS	13:40	22:00	12,025	3	620	0		3	1.1	N	0.3	62.2	0.00	0.00	On-Spec						18	5
17	3/4/13	JB	11:45	20:00	12,025	5	630	3		5	1.1	n	0.5	63.2	0.30	0.00	On-Spec						14	5
18	3/6/13	PS	15:00	23:00	11,840	2	561	0		2	1.2	N	0.2	55.4	0.00	0.00	On-Spec						12	5
19	3/21/13	AJ	18:15	1:35	11,137	2	481	0		4	1.2	N	0.2	44.7	0.00	0.00	On-Spec						10	5
20	3/23/13	AJ	11:15	16:00	7,400	3	496	0		2	1.2	N	0.2	30.6	0.00	0.00	On-Spec						10	5
21	3/25/13	MR	3:20	12:00	12,950	2	669	0		3	1.1	N	0.2	72.3	0.00	0.00	On-Spec						10	6
22	3/27/13	M.Rich	18:00	22:00	11,193	0	461	0		11	3.0	N	0.0	43.1	0.00	0.00	On-Spec						14	6
23	3/29/13	AJ	3:10	11:30	12,210	2	658	0		3	1.1	N	0.2	67.0	0.00	0.00	On-Spec						11	15
24	4/1/13	MR	16:35	0:45	11,655	4	925	3		4	1.0	N	0.3	90.0	0.29	0.00	On-Spec						25	4
25	4/6/13	JD	17:20	1:00	11,378	3	685	0		3	1.2	N				0.00	On-Spec						21	4
26	4/8/13	JB	19:00	3:15	12,025	2	735	0		4	1.7	N	0.2	73.8	0.00	0.00	On-Spec						21	4
27	4/12/13	M.Rich	19:00	2:30	9,805	9	193	0		4	2.6	N	0.8	15.8	0.00	0.00	On-Spec						26	5
28	4/15/13	JB	18:30	2:50	12,025	2	587	0		5	1.7	N	0.2	58.9	0.00	0.00	On-Spec						10	7
29	4/22/13	JB	11:30	18:30	12,432	1	497	18		3	1.5	N	0.1	51.6	1.87	0.00	On-Spec						17	6
30	4/24/13	MR	10:15	20:00	9,065	3	96	0		49	4.0	N	0.2	7.3	0.00	0.00	On-Spec						5	7
31	4/29/13	JB	13:30	20:20	12,210	2	375	15		3	1.2	N	0.2	38.2	1.53	0.00	On-Spec						10	6
32	4/30/13	JB	13:30	20:35	12,580	2	423	0		12	1.3	N	0.2	44.4	0.00	0.00	On-Spec						12	6
33	5/3/13	M.Rich	8:50	12:30	10,638	3	329	0			4.5	N	0.2	29.2	0.00	0.00	On-Spec						10	6
34	5/8/13	JB	9:30	17:30	12,025	23	304	13		6	1.3	N	2.3	30.5	1.30	0.00	On-Spec						8	6
35	5/10/13	JB	21:00	5:00	12,488	3	296			14	1.3	N	0.3	30.8	0.00	0.00	On-Spec						10	6
36	5/15/13	JB	15:30	22:50	11,840	1	316	11		3	1.1	N	0.1	31.2	1.09	0.00	On-Spec						10	6
37	5/17/13	JB	17:30	1:30	12,025	1	233	0		3	1.3	N	0.1	23.4	0.00	0.00	On-Spec						8	7
38	5/23/13	JB	10:30	18:20	12,673	3	271	0		10	1.3	N	0.3	28.7	0.00	0.00	On-Spec						12	7
39	5/24/13	PS	17:20	20:45	9,435		346	0		4	2.2	N	0.0	27.2	0.00	0.00	On-Spec						12	5
40	5/30/13	M.Rich	20:00	3:50	11,100	1	333	0		2	2.0	N	0.1	30.8	0.00	0.00	On-Spec						8	5
41	6/2/13	JB	21:35	5:30	12,025	6	357	0		2	1.9	N	0.6	35.8	0.00	0.00	On-Spec						9	5
42	6/5/13	M.Rich	13:00	14:00	6,105	2	353	6		176	3.8	N	0.1	18.0	0.31	0.00	On-Spec						8	5
43	6/8/13	JB	13:30	20:30	12,950	23	250	0		20	2.2	N	2.4	27.0	0.00	0.00	On-Spec						8	6
44	6/13/13	MR	0:45	7:15	10,175	5	262	0		15	2.1	N	0.4	22.2	0.00	0.00	On-Spec						10	6
45	6/17/13	JB	12:20	19:10	12,210	1	612	16		3	2.0	N	0.1	62.4	1.63	0.00	On-Spec						11	4
46	6/26/13	JB	11:30		3,700	7	61	4		455	5.9	N	0.2	1.9	0.12	0.00	On-Spec						5	7
47	6/27/13	AJ	2:25	12:45	12,765	3	381	0		41	1.2	N	0.3	40.6	0.00	0.00	On-Spec						8	6
48	7/2/13	JB	15:45	22:50	12,062	1	472	13		7	1.1	N	0.1	47.5	1.31	0.00	On-Spec						10	6
49	7/11/13	AJ	7:20	15:20	11,692	1	436	10		3	1.1	N	0.1	42.5	0.98	0.00	On-Spec						9	6
50	7/17/13	AJ	12:30	19:45	12,210	3	538	0		14	1.2	N	0.3	54.8	0.00	0.00	On-Spec						14	6
51	7/20/13	JB	17:30	1:00	12,765	2	513	0		4	1.1	N	0.3	54.6	0.00	0.00	On-Spec						14	7
52	7/24/13	AJ	10:20	16:10	9,694	138	429	0		12	1.5	N	11.2	34.7	0.00	0.00	On-Spec						15	6
53	7/26/13	JB	10:10	18:00	12,950	1	446	11		3	2.9	N	0.1	48.2	1.19	0.00	On-Spec						17	6
54	7/29/13	JB	11:15	19:30	12,950	2	494	18		3	1.1	N	0.2	53.4	1.95	0.00	On-Spec						15	6
55	8/13/13	JB	21:05	5:30	12,950	1	443	0		71	1.2	N	0.1	47.9	0.00	0.00	On-Spec						10	6

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Chlorinolysis Train 1

2013 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																								
BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
56	8/15/13	JB	1:00	9:45	12,950	3	421	0		15	1.2	N	0.3	45.5	0.00	0.00	On-Spec						13	6
57	8/19/13	JB	10:45	18:00	11,840	2	435	0		75	1.2	N	0.2	43.0	0.00	0.00	On-Spec						9	6
58	8/21/13	JB	17:15	1:25	12,210	2	319	0		63	1.3	N	0.2	32.5	0.00	0.00	On-Spec						7	6
59	8/23/13	AJ	12:30	20:00	12,303	3	518	23		25	1.2	N	0.3	53.2	2.36	0.00	On-Spec						9	4
60	8/29/13	JB	17:55	1:45	12,025	3	646	0		140	1.2	N	0.3	64.8	0.00	0.00	On-Spec						13	5
61	9/4/13	AJ	18:40	1:20	9,990	2	509	21		143	1.1	N	0.2	42.4	1.75	0.00	On-Spec						10	6
62	9/7/13	MR	14:00	21:00	10,157	5	560	14		62	1.2	n	0.4	47.5	1.19	0.00	On-Spec						12	5
63	9/13/13	JB	15:00	23:15	12,765	3	347	18		78	1.2	N	0.3	37.0	1.92	0.00	On-Spec						13	6
64	9/19/13	AJ	16:50	0:15	11,396	2	320	14		32	2.2	N	0.2	30.4	1.33	0.00	On-Spec						9	6
65	9/22/13	MR	11:30	19:45	12,025	2	452	0		10	2.0	N	0.2	45.4	0.00	0.00	On-Spec						13	6
66	9/25/13	AJ	14:45	22:00	11,415	4	337	17		14	2.1	N	0.3	32.1	1.62	0.00	On-Spec						10	6
67	9/26/13	AJ	22:10	6:00	12,395	2	461	0		17	2.0	N	0.2	47.7	0.00	0.00	On-Spec						10	6
68	9/29/13	JD	8:00	13:30	9,990	9	229	0		6	3.3	N	0.8	19.1	0.00	0.00	On-Spec						7	7
69	9/30/13	JB	23:00	9:00	12,025	6	396	0		28	0.5	N	0.6	39.7	0.00	0.00	On-Spec						12	6
70	10/3/13	MR	20:15	5:00	12,025	1	365	14		48	0.4	N	0.1	36.6	1.40	0.00	On-Spec						11	6
71	10/10/13	JB	1:15	10:50	12,173	3	448	34		43	0.5	N	0.3	45.5	3.45	0.00	On-Spec						14	7
72	10/11/13	AJ	15:10	20:15	11,100	8	307	25		194	2.0	N	0.7	28.4	2.32	0.00	On-Spec						10	6
73	10/13/13	JD	14:00	20:30	12,395	2	379	27		61	0.3	N	0.2	39.2	2.79	0.00	On-Spec						10	6
74	10/14/13	JB	15:05	21:30	11,840	3	320	35		7	0.4	n	0.3	31.6	3.46	0.00	On-Spec						10	7
75	10/16/13	JB	17:20	2:10	12,025	1	234	0		4	0.6	N	0.1	23.5	0.00	0.00	On-Spec						10	7
76	10/18/13	AJ	14:10	21:30	12,839	1	283	29		67	0.5	N	0.1	30.3	3.11	0.00	On-Spec						10	7
77	10/24/13	JB	22:00	8:30	12,950	1	442	0		27	0.8	N	0.1	47.8	0.00	0.00	On-Spec						10	7
78	10/30/13	JB	13:00	16:30	16,336	17	428	24		646	2.5	n	2.4	58.3	3.27	0.00	On-Spec						14	5
79	10/31/13	JB	11:40	20:15	12,081	5	216	27		114	1.1	n	0.5	21.8	2.72	0.00	On-Spec						10	7
80	11/3/13	JB	18:00	3:15	12,025	1	443	0		9	0.9	N	0.1	44.5	0.00	0.00	On-Spec						10	5
81	11/10/13	JB	16:00	0:00	11,896	2	412	25		9	1.0	n	0.2	40.9	2.48	0.00	On-Spec						11	6
82	11/13/13	AJ	16:55	23:50	9,509	1	228	11		18	1.2	N	0.1	18.1	0.87	0.00	On-Spec						9	7
83	11/15/13	JD	10:20	14:20	9,990	6	639	10		254	6.3	n	0.5	53.3	0.83	0.00	On-Spec						18	5
84	11/16/13	JD	16:00	0:35	11,692	3	399	15		163	1.1	N	0.3	38.9	1.46	0.00	On-Spec						12	5
85	11/20/13	JB	16:30	2:45	12,395	1	214	0		132	1.4	N	0.1	22.1	0.00	0.00	On-Spec						5	6
86	11/21/13	AJ	17:00	2:45	12,210	1	254	9		343	1.2	N	0.1	25.9	0.92	0.00	On-Spec						8	6
87	11/23/13	JB	6:35	16:05	12,025	2	250	0		80	1.4	N	0.2	25.1	0.00	0.00	On-Spec						8	6
88	11/25/13	AJ	9:50	18:35	10,915	1	191	0		6	1.5	N	0.1	17.4	0.00	0.00	On-Spec						7	6
89	11/26/13	JB	20:00	4:45	11,341	1	197	0		10	1.5	N	0.1	18.6	0.00	0.00	On-Spec						7	7
90	11/27/13	AJ	15:40	0:45	11,933	1	221	0		5	1.6	N	0.1	22.0	0.00	0.00	On-Spec						7	7
91	12/3/13	JB	7:00	16:45	12,025	2	298	0		11	1.3	n	0.2	29.9	0.00	0.00	On-Spec						7	7
92	12/6/13	JB	21:00	8:30	12,229	1	227	5		187	1.4	n	0.1	23.2	0.51	0.00	On-Spec						10	7
93	12/8/13	AJ	16:50	1:55	10,860	2	254	12		40	1.3	N	0.2	23.0	1.09	0.00	On-Spec						10	7
94	12/9/13	JB	17:00	3:20	12,025	1	285	0		95	1.4	N	0.1	28.6	0.00	0.00	On-Spec						10	7
95	12/11/13	MR	10:00	10:45	3,330		343	0		319	9.4	N	0.0	9.5	0.00	0.00	On-Spec						9	6
96	12/11/13	JB	21:00	8:00	12,950	63	454	0		276	1.5		6.8	49.1	0.00	0.00	On-Spec						9	5
97	12/13/13	MR	22:30	8:30	9,528	4	86	11		377	8.0	N	0.3	6.8	0.87	0.00	On-Spec						3	7
98	12/19/13	JB	17:30	3:00	12,395	1	229	0		230	1.3	N	0.1	23.7	0.00	0.00	On-Spec						5	8
99	12/20/13	JB	17:40	21:45	10,175	5	203	0		119	2.9	N	0.4	17.2	0.00	0.00	On-Spec						7	7
100	12/21/13	AJ	14:00	16:00	5,809	4	150	0		25	5.2	N	0.2	7.3	0.00	0.00	On-Spec						8	7
101	12/21/13	MR	21:45	8:45	12,044	2	283	12		59	1.2	N	0.2	28.4	1.21	0.00	On-Spec						8	7
102	12/23/13	MR	3:15	13:55	12,099	1	234	13		47	1.3	N	0.1	23.6	1.31	0.00	On-Spec						8	7
103	12/26/13	JB	5:00	14:35	11,655	1	165	0		71	1.5	N	0.1	16.0	0.00	0.00	On-Spec						7	7
104	12/27/13	JB	21:00	7:20	12,395	3	173	0		13	1.4	N	0.3	17.9	0.00	0.00	On-Spec						5	8

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BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
1	12/30/13	MR	20:00	0:15	3,293	4	55	0		25	5.6	N	0.1	1.5	0.00	0.00	On-Spec						14	5
2	1/4/14	JB	17:00	1:45	11,470	1	276	0		157	1.4	N	0.1	26.4	0.00	0.00	On-Spec						7	7
3	1/6/14	MR	21:15	8:20	12,081	1	193	12		115	1.3	N	0.1	19.5	1.21	0.00	On-Spec						7	7
4	1/11/14	JB	7:05	18:00	12,025	2	222	0		5	2.5	n	0.2	22.3	0.00	0.00	On-Spec						7	7
5	1/13/14	JB	20:15	6:35	12,044	2	357	12		28	1.3	N	0.2	35.9	1.21	0.00	On-Spec						7	7
6	1/19/14	JB	11:00	19:00	12,044	2	544	33		85	1.3	n	0.2	54.7	3.32	0.00	On-Spec						11	7
7	1/21/14	M.Rich	14:00	22:45	10,730	1	553	0		243	1.4	N	0.1	49.5	0.00	0.00	On-Spec						14	6
8	1/25/14	JD	13:00	20:15	10,582	1	542	19		141	1.5	N	0.1	47.9	1.68	0.00	On-Spec						14	5
9	1/28/14	JB	21:35	7:30	12,950	1	574	0		11	1.3	N	0.1	62.0	0.00	0.00	On-Spec						16	4
10	2/3/14	JD	4:30	13:30	9,565	0	601	0		908	1.3	n	0.0	48.0	0.00	0.00	On-Spec						12	5
11	2/4/14	JD	8:30	18:30	11,822	1	533	0		26	1.3	N	0.1	52.6	0.00	0.00	On-Spec						14	5
12	2/7/14	AJ	15:10	1:30	12,950	2	665	0		125	1.3	N	0.2	71.9	0.00	0.00	On-Spec						16	6
13	2/9/14	JD	13:15	23:05	11,748	1	445	11		69	1.5	N	0.1	43.6	1.08	0.00	On-Spec						20	6
14	2/11/14	JD	22:00	6:50	12,395	1	431	0		19	1.7	N	0.1	44.6	0.00	0.00	On-Spec						16	6
15	2/12/14	JD	19:00	6:40	12,950	2	306	0		12	1.5	N	0.2	33.1	0.00	0.00	On-Spec						12	6
16	2/13/14	JB	23:30	3:00	8,510	7	288	0		47	3.3	N	0.5	20.5	0.00	0.00	On-Spec						13	7
17	2/15/14	AJ	14:30	1:00	12,950	6	337	0		15	1.6	N	0.6	36.4	0.00	0.00	On-Spec						14	7
18	2/18/14	JD	7:00	15:30	11,914	2	378	14		97	1.4	n	0.2	37.6	1.39	0.00	On-Spec						10	11
19	2/19/14	JB	8:30	16:00	7,585	5	101	0		183	3.3	N	0.3	6.4	0.00	0.00	On-Spec						3	7
20	2/21/14	MR	9:30	19:20	12,025	2	259	0		49	1.3	N	0.2	26.0	0.00	0.00	On-Spec						10	7
21	2/22/14	MR	12:30	17:00	9,805	43	526	21		62	2.7	N	3.6	43.0	1.72	0.00	On-Spec						17	5
22	2/25/14	AJ	13:25	20:20	10,897	3	311	31		331	1.4	n	0.3	28.3	2.82	0.00	On-Spec						12	6
23	2/26/14	AJ	14:10	0:00	11,748	9	279	25		714	1.5	n	0.9	27.4	2.45	0.00	On-Spec						13	6
24	2/28/14	JD	21:30	3:00	11,563	5	271	11		270	1.3	n	0.5	26.1	1.06	0.00	On-Spec						10	7
25	3/1/14	JB	19:10	1:30	12,025	3	263	0		126	1.4	N	0.3	26.4	0.00	0.00	On-Spec						8	6
26	3/4/14	AJ	10:35	15:50	5,439	11	142	0		417	5.8	N	0.5	6.4	0.00	0.00	On-Spec						7	7
27	3/5/14	MR	2:45	11:30	12,599	73	186	13		113	1.6	N	7.6	19.6	1.34	0.00	On-Spec						7	6
28	3/6/14	AJ	22:35	5:05	11,896	2	282	0		138	1.4	N	0.2	28.0	0.00	0.00	On-Spec						4	7
29	3/14/14	AJ	23:25	7:30	12,876	3	357	0		340	1.2	N	0.3	38.4	0.00	0.00	On-Spec						10	7
30	3/16/14	JD	17:12	22:45	9,805	11	367	8			2.5	n	0.9	30.0	0.65	0.00	On-Spec						12	5
31	3/17/14	MR	10:30	16:50	11,840	1	381	0		223	0.7	N	0.1	37.6	0.00	0.00	On-Spec						15	6
32	3/18/14	JB	18:15	23:20	7,215	5	85	0		141	2.8	N	0.3	5.1	0.00	0.00	On-Spec						5	6
33	3/19/14	AJ	22:00	4:00	11,988	6	269	0		139	1.0	N	0.6	26.9	0.00	0.00	On-Spec						10	7
34	3/23/14	AJ	18:55	0:30	10,601	4	310	38		92	0.8	N	0.3	27.4	3.36	0.00	On-Spec						11	6
35	3/25/14	MR	8:45	15:30	12,950	7	355	0		35	0.7	N	0.8	38.4	0.00	0.00	On-Spec						11	6
36	3/28/14	AJ	21:40	3:15	10,638	1	472	33		107	0.6	N	0.1	41.9	2.93	0.00	On-Spec						13	5
37	3/30/14	JD	8:40	15:00	11,877	8	402	24		8	0.7	N	0.8	39.8	2.38	0.00	On-Spec						6	3
38	4/3/14	MR	22:00	8:00	11,100	1	353	0		18	1.1	N	0.1	32.1	0.00	0.00	On-Spec						11	6
39	4/4/14	JB	2:45		12,266	1	278	12		42	1.2		0.1	28.5	1.23	0.00	On-Spec						10	6
40	4/8/14	JB	14:30	20:00	12,081	2	338	20		298	1.3	N	0.2	34.1	2.01	0.00	On-Spec						10	6
41	4/16/14	AJ / KM	22:00	2:50	10,730	7	132	6		49	2.8	N	0.6	11.8	0.56	0.00	On-Spec						5	6
42	4/17/14	AJ	20:20	2:00	12,395	4	179	14		14	1.2	N	0.4	18.5	1.45	0.00	On-Spec						6	7
43	4/22/14	MR	3:00	10:00	9,509	2	236	21		114	1.2	N	0.2	18.7	1.67	0.00	On-Spec						8	6
44	4/24/14	JB	13:15	17:45	10,934	2	494	25		218	0.8	n	0.2	45.1	2.28	0.00	On-Spec						15	6
45	4/25/14	JD / KM	17:50	23:05	11,970	7	665	34		202	0.7	N	0.7	66.4	3.40	0.00	On-Spec						10	3
46	5/8/14	AJ	11:30	20:30	11,387	6	706	0		1180	1.2	N	0.6	67.1	0.00	0.00	On-Spec						10	3
47	5/12/14	JB	18:15	22:45	11,655	9	638	0		91	1.1	N	0.9	62.1	0.00	0.00	On-Spec						16	4
48	5/16/14	AJ	23:35	8:20	9,768	7	646	69		738	1.1	N	0.6	52.7	5.62	0.00	On-Spec						12	9
49	5/18/14	KLM	6:35	11:30	9,176	12	529	11		360	2.9	N	0.9	40.5	0.84	0.00	On-Spec						16	4
50	5/19/14	AJ	22:20	3:40	11,914	19	873	95		36	0.8	N	1.9	86.8	9.45	0.00	On-Spec						17	3
51	5/23/14	MR	14:45	18:40	8,473	8	1010	0		25	0.8	N	0.6	71.4	0.00	0.00	On-Spec						17	3
52	5/30/14	JB	1:25	6:25	11,285	12	1169	0		639	0.8	N	1.1	110.1	0.00	0.00	On-Spec						23	3
53	6/3/14	JF/KLM	13:30	16:00	5,421		767	2			5.6	n	0.0	34.7	0.09	0.00	On-Spec						19	5
54	6/5/14	JB	20:30	1:00	10,175	4	455	0		412	6.2	N	0.4	38.6	0.00	0.00	On-Spec						19	6
55	6/6/14	JB	16:45	21:30	11,655	3	750	0		89	0.8	N	0.3	72.9	0.00	0.00	On-Spec						14	3

Chlorinolysis Train 1

2014 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																								
BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
56	6/7/14	JB	16:45	21:50	11,470	3	755	0		14	0.6	N	0.3	72.3	0.00	0.00	On-Spec						18	4
57	6/10/14	AJ	17:00	1:00	12,025	4	662	17		368	0.7	N	0.4	66.4	1.71	0.00	On-Spec						19	5
58	6/11/14	JB/JF	14:05	21:00	12,210	14	918	0		894	0.8	n	1.4	93.5	0.00	0.00	On-Spec						17	3
59	6/14/14	JB	8:00	14:30	11,470	3	650	28		720	0.9	N	0.3	62.2	2.68	0.00	On-Spec	pH	2				15	5
60	6/19/14	AJ	17:30	21:30	10,656	2	231	2			6.3	N	0.2	20.5	0.18	0.00	On-Spec						10	6
61	6/20/14	AJ	19:30	23:20	9,491	2	244	0		710	3.9	N	0.2	19.3	0.00	0.00	On-Spec						8	7
62	6/22/14	JB	1:00	7:00	12,025	8	1038	0		2584	0.6	n	0.8	104.2	0.00	0.00	On-Spec						14	2
63	6/25/14	JD	12:25	17:40	10,804	16	390	7		444	2.5	N	1.5	35.2	0.63	0.00	On-Spec						16	5
64	6/26/14	KLM	10:55	12:40	3,793	7	493	0		91	1.0	N	0.2	15.6	0.00	0.00	On-Spec						20	6
65	6/26/14	JD	14:40	19:30	10,157	3	352	0		53	0.9	N	0.2	29.8	0.00	0.00	On-Spec						14	6
66	6/28/14	JB	15:30	20:15	11,285	2	463	0		14	0.8	N	0.2	43.6	0.00	0.00	On-Spec						17	6
67	6/30/14	JB	1:45	4:15	5,735	4	849	67		340	0.6	n	0.2	40.6	3.21	0.00	On-Spec						12	3
68	7/1/14	AJ	12:50	17:40	11,285	2	1044	0		24	0.6	N	0.2	98.3	0.00	0.00	On-Spec						6	1
69	7/8/14	KLM	14:30	19:00	9,158	2	231	0		208	9.4	N	0.2	17.7	0.00	0.00	On-Spec						12	4
70	7/29/14	JD	16:00	19:10	7,123	2	900	31		188	0.8	N	0.1	53.5	1.84	0.00	On-Spec						8	7
71	7/31/14	JD	12:20	14:45	11,248	2	611	0		118	0.9	N	0.2	57.4	0.00	0.00	On-Spec						20	6
72	8/2/14	AJ	6:20	9:00	10,360	2	996	20		64	1.1	N	0.1	86.1	1.73	0.00	On-Spec						19	4
73	8/6/14	JD	13:20	18:45	11,359	1	1228	34		100	1.0	N	0.1	116.4	3.22	0.00	On-Spec						22	3
74	8/15/14	JF	11:15	15:45	10,730	2	863	0		226	1.0	N	0.2	77.3	0.00	0.00	On-Spec						17	5
75	8/20/14	JD	14:00	18:10	9,158	11	799	38		25	1.0	N	0.8	61.1	2.90	0.00	On-Spec						16	5
76	8/22/14	JD	18:00	23:00	10,101		405	15			12.6	n	0.0	34.1	1.26	0.00	On-Spec						12	6
77	8/25/14	JD	21:00	3:40	5,180		205	0			6.7	N	0.0	8.9	0.00	0.00	On-Spec						6	6
78	8/26/14	KLM	21:35	1:45	10,009	13	758	0		91	0.9	N	1.1	63.3	0.00	0.00	On-Spec						8	2
79	9/3/14	AJ	7:25	10:15	6,457	11	668	33		226	1.1	N	0.6	36.0	1.78	0.00	On-Spec						13	3
80	9/8/14	JF	20:00	23:05	7,400	70	655	30		1167	1.2	N	4.3	40.5	1.85	0.00	On-Spec						7	3
81	9/12/14	AJ	11:00	14:30	8,473	10	696	26		15	1.1	N	0.7	49.2	1.84	0.00	On-Spec						9	3
82	9/17/14	KLM	11:50	14:50	6,993	5	538	0		226	1.2	N	0.3	31.4	0.00	0.00	On-Spec						11	4
83	9/21/14	AJ	4:45	7:50	6,531	3	516	19		94	1.1	N	0.2	28.1	1.04	0.00	On-Spec						12	3
84	9/24/14	JF	20:15	1:00	11,100		850	0		117			0.0	78.7	0.00	0.00	On-Spec						6	2
85	10/2/14	KLM	14:15	21:00	9,898	81	945	35		231	1.2	N	6.7	78.1	2.89	0.00	On-Spec						10	3
86	10/12/14	JD	12:45	17:30	11,285	64	1039	46		648	1.0		6.0	97.9	4.33	0.00	On-Spec						9	2
87	10/16/14	AJ	1:00	6:00	11,914	2	925	28		161	0.7	N	0.2	92.0	2.78	0.00	On-Spec						9	3
88	10/21/14	KLM	21:05	2:10	10,813	12	380	0		283	0.9	N	1.1	34.3	0.00	0.00	On-Spec						11	4
89	10/25/14	AJ	20:05	1:05	12,025	8	691	73		50	1.0	N	0.8	69.3	7.33	0.00	On-Spec						13	3
90	10/29/14	AJ	9:20	13:55	11,359	5	923	43		176	0.7	N	0.5	87.5	4.08	0.00	On-Spec						15	4
91	10/30/14	AJ & KLM	9:00	0:50	11,698	169	666	0		130	1.0	N	16.5	65.0	0.00	0.00	On-Spec						13	3
92	11/5/14	M.Rich	9:50	15:45	12,765	134	1334	0		65	1.4	N	14.3	142.1	0.00	0.00	On-Spec						16	3
93	11/7/14	AJ	8:45		1,203	107	200	3		47	11.8	N	1.1	2.0	0.03	0.00	On-Spec						9	7
94	11/17/14	JD	6:50	11:50	12,136	20	1304	34		54	1.1	N	2.0	132.1	3.44	0.00	On-Spec						13	2
95	11/19/14	JD	18:00	0:00	8,695	87	698	186		95	1.5	n	6.3	50.6	13.50	0.00	On-Spec						18	5
96	11/22/14	JF	22:00	2:40	11,100	47	1424	35		28	1.1	N	4.3	131.9	3.24	0.00	On-Spec						28	3
97	11/24/14	JD	18:00	22:00	9,324	28	376	14		22	1.9	n	2.2	29.3	1.09	0.00	On-Spec						15	6
98	12/1/14	KLM	23:20	2:30	7,770	7	1089	0		8	1.1	N	0.5	70.6	0.00	0.00	On-Spec						30	6
99	12/4/14	JD	19:00	22:00	9,805	13	675	0		61	1.2	n	1.1	55.2	0.00	0.00	On-Spec						21	5
100	12/6/14	JD	0:35	11:05	11,385	14	701	0		13	1.0	N	1.3	66.6	0.00	0.00	On-Spec						26	6
101	12/7/14	JF	20:00	2:10	11,082	8	626	25		19	0.9	N	0.7	57.9	2.31	0.00	On-Spec						24	5
102	12/9/14	AJ	11:15	16:20	12,044	30	813	3		10	1.0	N	3.0	81.7	0.30	0.00	On-Spec						21	5
103	12/10/14	JD	13:35	18:20	11,063	7	818	49		6	0.7	N	0.6	75.5	4.52	0.00	On-Spec						17	8
104	12/12/14	JD	20:00	23:35	4,200	61	354	0		60	3.7	N	2.1	12.4	0.00	0.00	On-Spec						16	8
105	12/13/14	JD	22:10	3:15	11,215	45	589	33		4	0.7	N	4.2	55.1	3.09	0.00	On-Spec						15	9
106	12/15/14	JD	21:40	1:00	8,325	68	419	22		22	1.2	n	4.7	29.1	1.53	0.00	On-Spec						8	8
107	12/16/14	KLM	17:45	2:45	10,638	8	236	0		6	1.3	N	0.7	21.0	0.00	0.00	On-Spec						12	7
108	12/17/14	KLM	17:05	23:00	12,599	31	98	0		114	8.5	n	3.3	10.3	0.00	0.00	On-Spec						12	7
109	12/18/14	AJ	18:20	23:55	12,099	3	342	14		12	1.3	N	0.3	34.5	1.41	0.00	On-Spec						12	7
110	12/20/14	AJ	3:40	8:45	11,822	8	355	27		6	1.2	N	0.8	35.0	2.66	0.00	On-Spec						11	6

Chlorinolysis Train 1

2014 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																						
		CHLOR.	START	END		F	TOC	Bleach	Methanol			2	F	TOC	Bleach	Methanol	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing
BATCH #	DATE	OPER.	TIME	TIME	VOL (Gal)	(ppm)	(ppm)	(ppm)	(ppm)	NTU	pH	PHASES	(LBS)	(LBS)	(LBS)	(lbs)						Cl2 (avg lb/hr)
111	12/21/14	JD	17:00	23:00	11,575	6	310			9	1.2	n	0.6	29.9	0.00	0.00	On-Spec					5
112	12/22/14	JF	11:30	18:00	11,766	24	48	0		20	2.8	n	2.4	4.7	0.00	0.00	On-Spec					7
113	12/23/14	JB	7:00	12:15	12,025	3	169	0		5	1.5	N	0.3	17.0	0.00	0.00	On-Spec					5
114	12/25/14	KLM	23:30	4:00	10,138	29	298	0		47	1.2	n	2.5	25.2	0.00	0.00	On-Spec					7
115	12/26/14	JD	14:05	19:15	12,044	7	280	48		10	1.3	N	0.7	28.1	4.82	0.00	On-Spec					5
																						7

Chlorinolysis Train 1  
2015 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																								
BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
1	1/5/15	JF	13:45	20:15	9,380	28	99	57			2.0	n	2.2	7.7	4.46	0.00	On-Spec						5	7
2	1/9/15	M.Rich	8:15	13:35	11,193	10	142	21		108	3.7	N	0.9	13.3	1.96	0.00	On-Spec						5	7
3	1/13/15	AJ	2:15	21:00	12,358	4	404	20		6	1.2	N	0.4	41.7	2.06	0.00	On-Spec						6	7
4	1/16/15	JF	0:20	5:15	11,396	12	464	0		4	1.3	N	1.1	44.1	0.00	0.00	On-Spec						10	5
5	1/17/15	KLM/AJ	15:35	19:30	9,805	4	121	0		50	2.9	N	0.3	9.9	0.00	0.00	On-Spec						10	5
6	1/18/15	AJ	17:00	21:00	4,163	3	104	9		53	11.3	N	0.1	3.6	0.31	0.00	On-Spec						9	7
7	1/21/15	AJ	20:45	1:20	10,767	5	359	25		54	1.4	N	0.4	32.3	2.25	0.00	On-Spec						12	6
8	1/24/15	KLM	10:50	15:00	9,491	64	116	0			12.0	N	5.1	9.2	0.00	0.00	On-Spec						5	6
9	1/25/15	AJ	11:00	16:05	11,785	13	411	0		3	1.2	N	1.3	40.4	0.00	0.00	On-Spec						16	6
10	1/26/15	KLM	19:55	1:25	11,581	5	316	0		0	1.4	N	0.5	30.5	0.00	0.00	On-Spec						11	6
11	1/28/15	JB	10:30	16:00	6,475	113	128	0		20	12.3	N	6.1	6.9	0.00	0.00	On-Spec						6	7
12	2/6/14	PS	10:00	12:50	4,255	17	332	106		880	5.9	N	0.6	11.8	3.76	0.00	On-Spec						14	6
13	2/7/15	JF	23:05	4:00	11,738	18	747	12		301	1.3	N	1.8	73.2	1.18	0.00	On-Spec						12	3
14	2/13/15	AJ	15:20	18:15	6,938	3	664	0		4	1.4	N	0.2	38.4	0.00	0.00	On-Spec						3	12
15	2/14/15	AJ	21:45	0:35	6,346	3	700	22		65	1.2	N	0.1	37.1	1.17	0.00	On-Spec						12	4
16	2/16/15	KLM	10:45	13:35	9,176	118	693	0		170	1.3	N	9.0	53.1	0.00	0.00	On-Spec						12	4
17	2/17/15	JF	23:15	11:00	12,025	20	147	5		184	10.9	N	2.0	14.8	0.50	0.00	On-Spec						6	8
18	2/20/15	JB	6:30	11:30	11,840	5	1072	0		3	1.2	N	0.5	105.9	0.00	0.00	On-Spec						16	3
19	2/23/15	AJ	4:30	9:25	11,433	30	1189	27		117	1.3	N	2.8	113.4	2.58	0.00	On-Spec						20	3
20	2/27/15	KLM	18:55	0:05	12,081	11	1120	0		357	1.5	N	1.1	112.9	0.00	0.00	On-Spec						21	3
21	3/3/15	JF	19:05	22:35	8,399	28	948	1		84	1.5	N	2.0	66.4	0.07	0.00	On-Spec						17	3
22	3/10/15	JF	10:30	17:30	8,973	88	765	14		139	1.6	N	6.6	57.3	1.05	0.00	On-Spec	pH		2			18	4
23	3/12/15	JF	11:20	4:15	11,681	3	1306	0		119	1.3	N	0.3	127.3	0.00	0.00	On-Spec						18	3
24	3/15/15	M.Rich	18:30	2:30	9,435	20	1124	1		239	12.8	N	1.6	88.5	0.08	0.00	On-Spec						20	3
25	3/18/15	JB	23:00	2:45	8,880	9	748	0		1	1.1	N	0.6	55.4	0.00	0.00	On-Spec						22	5
26	3/20/15	KLM	9:00	14:15	7,141	179	748	19		92	1.2	N	10.7	44.6	1.13	0.00	On-Spec						23	5
27	3/29/15	JF	3:35	7:25	8,954	28	696	0		57	1.2	N	2.1	52.0	0.00	0.00	On-Spec						16	4
28	4/4/15	JF	0:45	5:05	9,990	37	716	0		27	1.4	N	3.1	59.7	0.00	0.00	On-Spec						17	4
29	4/11/15	JF	21:05	12:15	7,881	39	561	0		16	1.4	N	2.6	36.9	0.00	0.00	On-Spec						14	4
30	4/13/15	JF	21:20	23:45	5,939	21	444	0		10	1.3	N	1.0	22.0	0.00	0.00	On-Spec						13	5
31	4/15/15	AJ	19:55	7:30	10,693	8	493	5		272	12.6	N	0.7	44.0	0.45	0.00	On-Spec						15	6
32	4/17/15	M.Rich	13:15	18:35	11,914	2	714	21		45	1.2	N	0.2	71.0	2.09	0.00	On-Spec						16	4
33	4/22/15	KLM	12:30	11:45	7,966	92	450	3		41	12.0	N	6.1	29.9	0.20	0.00	On-Spec						18	7
34	4/28/15	JF	8:30	12:54	10,064	38	622	0		6	1.2	N	3.2	52.2	0.00	0.00	On-Spec						14	5
35	5/1/15	JB	8:00	18:40	11,211	15	203	0		202	12.1	N	1.4	19.0	0.00	0.00	On-Spec						9	7
36	5/2/15	JB	10:30	15:30	11,470	4	711	0		19	0.8	N	0.4	68.1	0.00	0.00	On-Spec						14	4
37	5/4/15	KLM	23:40	3:25	11,452	23	905	0		96	1.7	N	2.2	86.5	0.00	0.00	On-Spec						15	3
38	5/7/15	JF	15:00	0:25	10,471	3	1005	6		22	1.2	N	0.2	87.8	0.52	0.00	On-Spec						23	4
39	5/16/15	M.Rich	9:00	12:30	10,360	9	570	0		12	2.0	N	0.8	49.3	0.00	0.00	On-Spec						22	6
40	5/18/15	M.Rich	20:00	10:40	10,471	7	538	2		52	7.3	N	0.6	47.0	0.17	0.00	On-Spec						66	2
41	5/19/15	M.Rich	23:45	3:00	12,025	4	1750	0		4	0.6	N	0.4	175.6	0.00	0.00	On-Spec						33	4
42	5/26/15	J.Guzman	17:10	3:45	10,268	1	720	30		5	1.0	N	0.1	61.7	2.57	0.00	On-Spec						24	5
43	5/30/15	AJ	18:50	23:55	12,062	1	638	21		4	0.6	N	0.1	64.2	2.11	0.00	On-Spec						26	6
44	6/8/15	JF	1:20	6:30	12,025	2	647	22		5	0.7	N	0.2	64.9	2.21	0.00	On-Spec						19	5
45	6/9/15	JG	14:00	18:20	10,175	1	622	0		5	1.4	N	0.1	52.8	0.00	0.00	On-Spec						18	4
46	6/11/15	JG/AJ	9:40	3:00	11,063	172	655	0		11	3.1	N	15.9	60.5	0.00	0.00	On-Spec						24	5
47	6/13/15	PS	10:15	15:00	9,620	81	322	10		7	5.0	N	6.5	25.9	0.80	0.00	On-Spec						17	7
48	6/16/15	JG/KM	9:00	11:10	5,063	22	367	4		102	6.8	N	0.9	15.5	0.17	0.00	On-Spec						18	7
49	6/17/15	JG	13:15	16:55	6,216	15	105	0		174	9.3	N	0.8	5.4	0.00	0.00	On-Spec						6	7
50	6/19/15	JF	23:57	6:00	11,859	4	519	12		19	0.8	N	0.4	51.4	1.19	0.00	On-Spec						20	6
51	6/20/15	AJ	10:00	15:00	11,637	2	588	15		8	0.7	N	0.1	57.1	1.46	0.00	On-Spec						23	6
52	6/22/15	JF	8:30	10:30	5,976	1	1151	7		78	7.5	N	0.1	57.4	0.35	0.00	On-Spec						26	3
53	7/2/15	JF	19:30	23:45	10,138	1	442	0		11	0.8	N	0.1	37.4	0.00	0.00	On-Spec						21	7
54	7/4/15	KLM	23:10	3:38	9,768	8	981	0		11	11.3	N	0.6	80.0	0.00	0.00	On-Spec						26	4
55	7/5/15	AJ	15:50	20:45	11,285	2	491	0		6	0.9	N	0.2	46.2	0.00	0.00	On-Spec						24	6

Chlorinolysis Train 1  
2015 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																								
BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
56	7/7/15	PS/JG	9:00	15:00	6,475	9	1102	12		678	6.6	N	0.5	59.5	0.65	0.00	On-Spec						22	3
57	7/9/15	JG	10:00	15:30	12,580	2	453	12		104	0.9	N	0.2	47.6	1.26	0.00	On-Spec						19	5
58	7/11/15	M.Rich	16:00	22:00	10,360	9	129	0		32	11.6	N	0.7	11.2	0.00	On-Spec							10	6
59	7/17/15	M.Rich	2:40	7:35	2,035	2	499	8		48	1.0	N	0.0	8.5	0.14	0.00	On-Spec						23	7
60	7/19/15	KLM/JF	18:15	23:15	11,951	1	612	0		8	0.8	N	0.1	61.0	0.00	0.00	On-Spec						21	5
61	7/22/15	KLM / AJ	0:45	5:50	11,914	1	537	21		9	1.0	N	0.1	53.4	2.09	0.00	On-Spec						19	5
62	7/24/15	AJ/JF	12:50	17:34	10,989	5	1028	30		10	1.2	N	0.5	94.3	2.75	0.00	On-Spec						25	3
63	7/29/15	JG	18:20	23:35	12,155	2	734	20		11	1.3	N	0.2	74.5	2.03	0.00	On-Spec						32	4
64	8/11/15	M.Rich	4:20	8:40	9,990	3	652	0		26	12.6	N	0.3	54.4	0.00	0.00	On-Spec						26	5
65	8/19/15	JG	9:30	12:45	12,025	1	402	5		894	1.8	N	0.1	40.3	0.50	0.00	On-Spec						23	7
66	8/22/15	AJ	4:50	9:45	11,422	2	611	20		700	1.0	N	0.2	58.2	1.91	0.00	On-Spec						16	4
67	8/25/15	JG	9:00	12:30	5,032	4	912	0		173	10.2	N	0.2	38.3	0.00	0.00	On-Spec						20	3
68	9/1/15	AJ	17:25	21:45	5,162	10	335	4		980	12.2	N	0.4	14.4	0.17	0.00	On-Spec						23	7
69	9/2/15	JG/JF	12:00	2:00	11,526	10	892	45		235	1.2	N	1.0	85.8	4.33	0.00	On-Spec						32	4
70	9/5/15	JG	12:00	17:27	10,601	6	1072	0		973	1.1	N	0.5	94.8	0.00	0.00	On-Spec						38	4
71	9/6/15	KLM	17:00	21:38	10,712	6	636	0		2111	1.3	N	0.5	56.9	0.00	0.00	On-Spec						33	6
72	9/11/15	JF	17:30	22:50	11,304	4	1250	21		38	2.8	N	0.3	117.9	1.98	0.00	On-Spec						44	3
73	9/14/15	JG/AJ	1:00	14:30	10,490	8	1259	0		6	2.2	N	0.7	110.2	0.00	0.00	On-Spec						45	3
74	9/16/15	AJ	16:45	20:50	9,888	7	1110	15		83	2.1	N	0.6	91.6	1.24	0.00	On-Spec						32	3
75	9/22/15	M.Rich	14:00	16:30	5,495	3	1543	1		23	4.0	N	0.1	70.8	0.05	0.00	On-Spec						31	2
76	9/26/15	JF/JG	16:30	18:52	5,661	0	1435	0		12	2.4	N	0.0	67.8	0.00	0.00	On-Spec						34	3
77	9/30/15	JG/AJ	2:50	7:20	10,823	1	1665	17		8	1.5	N	0.1	150.4	1.54	0.00	On-Spec						38	3
78	10/5/15	JG	4:45	8:00	7,585	1	1200	24		7	1.6	N	0.1	76.0	1.52	0.00	On-Spec						34	3
79	10/6/15	M.Rich/JF	13:05	15:45	5,550	1	1282	24		6	1.4	N	0.0	59.4	1.11	0.00	On-Spec						45	4
80	10/10/15	JF	14:35	17:45	6,882	1	1363	24		7	1.7	N	0.1	78.3	1.38	0.00	On-Spec						37	3
81	10/12/15	JF	19:55	21:37	3,682	1	1498	24		7	1.6	N	0.0	46.0	0.74	0.00	On-Spec						40	3
82	10/14/15	JF/JG	1:40	4:20	10,712	6	1181	29		56	1.7	N	0.5	105.6	2.59	0.00	On-Spec						36	3
83	10/16/15	JG/AJ	3:15	13:15	12,414	6	1023	16		14	1.8	N	0.7	106.0	1.66	0.00	On-Spec						38	4
84	10/18/15	AJ	16:25	18:30	5,310	114	570	7		59	7.4	N	5.1	25.3	0.31	0.00	On-Spec						39	7
85	10/20/15	JG/JF	15:00	17:45	11,008	28	799	23		7	1.3	N	2.6	73.4	2.11	0.00	On-Spec						30	5
86	10/22/15	KK/JF	12:45	19:30	9,195	13	736	16		4	1.4	N	1.0	56.5	1.23	0.00	On-Spec						39	6
87	11/3/15	JF	5:45	8:15	5,717	9	1617	0		14	1.2	N	0.0	0.0	0.00	0.00	On-Spec						32	5
88	11/5/15	JF	17:42	22:25	10,767	1	805	35		10	1.0	N	0.1	72.3	3.14	0.00	On-Spec						40	6
89	11/9/15	AJ/KLM	13:10	17:35	10,027	4	709	0		9	1.1	N	0.4	59.3	0.00	0.00	On-Spec						35	6
90	11/12/15	JF	10:45	13:55	7,308	2	407	15		6	1.1	N	0.1	24.8	0.91	0.00	On-Spec						21	7
91	11/14/15	AJ	20:35	22:15	3,645	1	319	17		6	1.2	N	0.0	9.7	0.52	0.00	On-Spec						5	7
92	11/16/15	PS	14:00	17:00	6,512	8	82	10		50	12.0	N	0.5	4.5	0.54	0.00	On-Spec						25	7
93	11/19/15	JF	6:35	11:25	10,841	3	541	14		13	1.1	N	0.2	48.9	1.27	0.00	On-Spec						25	7
94	11/21/15	JF	18:45	23:10	10,305	2	508	18		8	1.1	N	0.1	43.7	1.55	0.00	On-Spec						27	7
95	11/22/15	JF	16:40	21:30	10,878	4	575	37		4	1.6	N	0.4	52.2	3.36	0.00	On-Spec						29	7
96	11/24/15	JG	17:30	23:30	10,730	5	501	19		7	1.1	N	0.4	44.9	1.70	0.00	On-Spec						13	7
97	11/25/15	AJ	13:50	18:00	10,256	28	175	19		389	5.8	N	2.4	15.0	1.63	0.00	On-Spec						13	7
98	12/3/15	AJ	15:20	20:05	10,915	2	542	0		11	1.7	N	0.2	49.4	0.00	0.00	On-Spec						26	7
99	12/9/15	KLM/JG	16:05	20:00	8,051	5	349	18		7	1.4	N	0.3	23.4	1.21	0.00	On-Spec						21	7
100	12/13/15	AJ	17:50	19:00	4,644	1	83	4		18	11.8		0.0	3.2	0.16	0.00	On-Spec						5	7
101	12/14/15	JF	8:50	12:10	5,291	1	303	16		5	1.1	N	0.1	13.4	0.71	0.00	On-Spec						15	7
102	12/18/15	M.Rich	14:00	19:00	12,025	1	494	21		11	1.2	N	0.1	49.6	2.11	0.00	On-Spec						24	7
103	12/23/15	AJ	2:00	7:45	10,471	1	437	25		10	1.3	N	0.1	38.2	2.18	0.00	On-Spec						22	7
104	12/24/15	JG/JF	14:50	19:40	10,952	3	343	17		7	1.2	N	0.3	31.4	1.55	0.00	On-Spec						17	7
105	12/25/15	JG & KLM	21:45	13:00	12,099	11	67	0		44	6.6	N	1.1	6.8	0.00	0.00	On-Spec						6	7
106	12/27/15	KLM	9:45	13:20	8,473	6	153	6			7.9	N	0.5	10.8	0.42	0.00	On-Spec						8	7
107	12/28/15	KLM/JG	14:20	19:25	11,637	3	355	25		46	1.2	N	0.3	34.5	2.43	0.00	On-Spec						17	7

Chlorinolysis Train 1

2016 T-1002 Transfers and Analytical

Analytical Data on Stream going from T-1001 to T-1002																								
BATCH #	DATE	CHLOR. OPER.	START TIME	END TIME	VOL (Gal)	F (ppm)	TOC (ppm)	Bleach (ppm)	Methanol (ppm)	NTU	pH	2 PHASES	F (LBS)	TOC (LBS)	Bleach (LBS)	Methanol (lbs)	ON/OFFSPEC	Transf. Procedure	Oper. Conditions	Processing	Other Comments	Mixing	Cl2 (avg lb/hr)	Feed (avg gpm)
1	1/2/16	M.Rich	6:15	7:30	3,423	14	132	0		62	11.9	N	0.4	3.8	0.00	0.00	On-Spec						7	7
2	1/2/16	JG	20:45	2:00	11,674	2	329	16		36	1.1	N	0.2	32.1	1.56	0.00	On-Spec						19	7
3	1/7/16	JF	17:07	23:55	12,525	1	336	0		23	1.3	N	0.1	35.1	0.00	0.00	On-Spec						18	7
4	1/8/16	JG/JF	10:15	15:00	10,730	1	331	8		10	1.4	N	0.1	29.6	0.72	0.00	On-Spec						18	7
5	1/9/16	JG/JF	10:00	15:00	11,304	1	280	9		14	1.3	N	0.1	26.4	0.85	0.00	On-Spec						15	7
6	1/11/16	KLM/JG	14:00	20:15	11,711	4	192	16		9	1.1	N	0.4	18.8	1.56	0.00	On-Spec						10	7
7	1/13/16	KLM	20:55	1:15	10,305	10	122	0		187	5.8	N	0.8	10.5	0.00	0.00	On-Spec						10	7
8	1/14/16	AJ	9:30	13:10	9,454	15	96	6		71	5.8	N	1.2	7.6	0.47	0.00	On-Spec						6	8
9	1/15/16	KLM/AJ	3:38	8:30	11,045	2	204	7		14	1.4	N	0.2	18.8	0.65	0.00	On-Spec						10	7
10	1/16/16	JG/JF	16:00	20:45	11,137	2	224	10		8	1.3	N	0.2	20.8	0.93	0.00	On-Spec						10	7
11	1/18/16	M.Rich	7:25	13:45	11,100	4	170	0		55	12.1	N	0.4	15.7	0.00	0.00	On-Spec						7	7
12	1/18/16	JG	22:45	3:30	11,137	3	147	8		19	1.2	N	0.3	13.7	0.74	0.00	On-Spec						7	7
13	1/20/16	AJ/MR	15:05	20:05	11,544	2	128	0		23	1.7	N	0.2	12.3	0.00	0.00	On-Spec						6	7
14	1/21/16	M.Rich	20:00	1:20	11,748	3	137	0		16	1.6	N	0.3	13.4	0.00	0.00	On-Spec						6	7
15	1/23/16	M.Rich	19:45	2:00	6,753	28	60	0		179	11.6	N	1.5	3.4	0.00	0.00	On-Spec						4	7
16	1/24/16	JF	17:45	22:56	11,766	1	117	10		80	1.5	N	0.1	11.5	0.98	0.00	On-Spec						5	7
17	1/26/16	KLM/JG	11:37	16:45	11,618	3	159	11		90	1.4	N	0.3	15.4	1.07	0.00	On-Spec						5	7
18	1/28/16	AJ	9:05	12:20	7,326	2	124	7		7	1.4	N	0.1	7.6	0.43	0.00	On-Spec						5	7
19	1/30/16	AJ	18:30	23:40	11,748	1	164	7		20	1.3	N	0.1	16.1	0.65	0.00	On-Spec						6	7
20	2/2/16	JG	8:30	14:00	11,822	6	245	20		22	1.4	N	0.6	24.2	1.97	0.00	On-Spec						8	7
21	2/8/16	AJ	20:50	2:25	12,950	1	305	12		17	1.2	N	0.1	33.0	1.30	0.00	On-Spec						11	7
22	2/18/16	JG/JF	15:55	20:20	10,231	3	480	0		44	1.3	N	0.3	41.0	0.00	0.00	On-Spec						16	7
23	2/21/16	M.Rich	22:30	4:00	9,620	3	72	6		205	10.6	N	0.2	5.8	0.48	0.00	On-Spec						7	7
24	2/22/16	AJ	11:25	16:20	11,470	4	233	0		48	1.3	N	0.4	22.3	0.00	0.00	On-Spec						10	7
25	2/26/16	JG	10:00	13:30	8,880	1	356	32		362	1.1	N	0.1	26.4	2.37	0.00	On-Spec						11	7
26	2/28/16	KLM/JG	7:09	11:36	10,571	2	360	19		83	1.1	N	0.1	31.8	1.68	0.00	On-Spec						10	7
27	3/1/16	AJ	4:30	9:40	11,563	1	305	17		115	1.2	N	0.1	29.4	1.64	0.00	On-Spec						8	7
28	3/4/16	JF	12:20	17:35	12,099	2	337	10		10	2.0	N	0.2	34.0	1.01	0.00	On-Spec						14	7
29	3/5/16	AJ	19:40	0:35	11,119	1	360	13		10	1.0	N	0.1	33.4	1.21	0.00	On-Spec						12	7
30	3/6/16	JG	19:45	0:15	10,915	3	297	0		24	1.4	N	0.3	27.1	0.00	0.00	On-Spec						14	7
31	3/7/16	JG	19:15	23:15	11,100	1	192	10		10	1.4	N	0.1	17.8	0.93	0.00	On-Spec						8	7
32	3/9/16	M.Rich	21:10	5:10	10,545	2	17	2		10	7.1	N	0.2	1.5	0.18	0.00	On-Spec						4	7
33	3/10/16	AJ/JF	4:20	9:25	11,664	2	213	8		10	1.7	N	0.2	20.7	0.78	0.00	On-Spec						8	7
34	3/12/16	JG	9:00	14:15	11,285	1	145	8		8	1.8	N	0.1	13.7	0.75	0.00	On-Spec						6	7
35	3/13/16	JG/JF	14:15	19:22	11,507	1	159	8		7	1.8	N	0.1	15.3	0.77	0.00	On-Spec						8	7
36	3/14/16	KLM/JG	18:30	1:45	9,990	2	45	0		21	10.8	N	0.2	3.8	0.00	0.00	On-Spec						5	7
37	3/15/16	JG	19:45	1:30	11,840	2	170	8		5	1.7	N	0.2	16.8	0.79	0.00	On-Spec						5	7
38	3/17/16	JG	23:45	5:10	11,840	2	247	10		7	1.6	N	0.2	24.4	0.99	0.00	On-Spec						9	7
39	3/19/16	JF	11:30	13:45	9,639	1	63	7		17	11.6	N	0.1	5.1	0.56	0.00	On-Spec						3	7
40	3/19/16	AJ/JG	22:25	3:40	12,007	1	300	14		6	1.5	N	0.1	30.1	1.40	0.00	On-Spec						11	7
41	3/24/16	JG	4:30	9:40	12,210	1	317	11		5	1.4	N	0.1	32.3	1.12	0.00	On-Spec						12	7
42	3/25/16	GV/MR	16:40	20:40	11,100	5	138	5		67	8.1	N	0.5	12.8	0.46	0.00	On-Spec						5	7
43	3/27/16	JF	8:00	13:00	11,267	8	373	9		6	1.4	N	0.8	35.1	0.85	0.00	On-Spec						16	7
44	3/30/16	JG	0:15	5:00	11,840	1	424	16		6	1.3	N	0.1	41.9	1.58	0.00	On-Spec						17	7
45	4/1/16	KLM	23:59	3:40	9,768	10	127	50		46	3.0	N	0.8	10.4	4.08	0.00	On-Spec						7	7
46	4/5/16	JG	12:55	18:10	12,136	1	391	21		5	1.3	N	0.1	39.6	2.13	0.00	On-Spec						17	7
47	4/6/16	JG/JF	13:35	18:15	11,341	1	530	15		6	1.3	N	0.1	50.2	1.42	0.00	On-Spec							